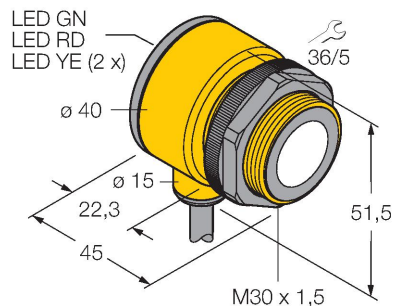


# T30UDNA

## Ultrasonic Sensor – diffuse mode sensor With Switching Outputs



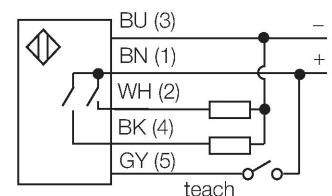
### Technical data

|                        |                                   |
|------------------------|-----------------------------------|
| Type                   | T30UDNA                           |
| ID                     | 3055547                           |
| <b>Ultrasonic data</b> |                                   |
| Function               | Proximity switch                  |
| Range                  | 150...1000 mm                     |
| Ultrasound frequency   | 228 kHz                           |
| Repeatability          | ≤ ± 0.375 mm                      |
| Temperature drift      | ≤ 0.17 % of full scale/K          |
| <b>Electrical data</b> |                                   |
| Operating voltage      | 12...24 VDC                       |
| Response time typical  | < 48 ms                           |
| Output function        | 2 normally open contact, NPN      |
| Switching frequency    | ≤ 20 Hz                           |
| Hysteresis             | ≤ 2.5 mm                          |
| <b>Mechanical data</b> |                                   |
| Design                 | Tube, T30U                        |
| Radiation direction    | straight                          |
| Dimensions             | Ø 40 x 45 mm                      |
| Housing material       | Plastic, PBT                      |
| Transducer material    | Plastic, Epoxyd resin and PU foam |
| Electrical connection  | Cable, 2 m, PVC                   |
| Ambient temperature    | -20...+70 °C                      |
| Relative humidity      | 100 %                             |
| Protection class       | IP67                              |
| Power-on indication    | LED                               |

### Features

- Compact design
- Cable, 2 m
- Operating voltage 12...24 VDC
- Two PNP transistor outputs
- Two independent switching ranges adjustable via button or control line
- Blind zone: 15 cm
- Range: 100 cm

### Wiring diagram



### Functional principle

Ultrasonic sensors detect a multitude of objects contactless and wear-free with ultrasonic waves. Regardless of whether the object is transparent or opaque, metallic or non-metallic, liquid, solid or powdery. Even environmental conditions such as spray, dust or rain hardly affect their function.

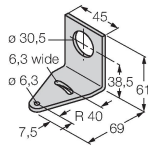
Technical data

|                 |                                           |
|-----------------|-------------------------------------------|
| Switching state | LED, Yellow                               |
| Object detected | LED                                       |
| Tests/approvals |                                           |
| MTTF            | 246 years acc. to SN 29500 (Ed. 99) 40 °C |
| Approvals       | CE                                        |

Accessories

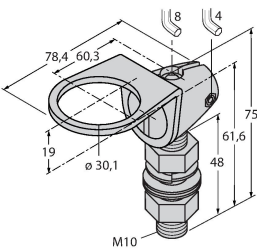
SMB30A 3032723

Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread



SMB30FAM10 3011185

Mounting bracket, stainless steel, for M10 x 1.5 thread, thread length 30 mm



SMB30SC 3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

